

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014503

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl' H01L21/31, 21/312, H01L21/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' H01L21/31-21/32, H01L21/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-168644 A (Tokyo Electron Ltd.), 13 June, 2003 (13.06.03), Par. No. [0054] (Family: none)	1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17 3, 12
Y	JP 2001-162207 A (Tokyo Electron Ltd.), 19 June, 2001 (19.06.01), Full text & US 6514343 B1	3, 12
A	JP 2001-239199 A (Tokyo Electron Ltd.), 04 September, 2001 (04.09.01), Fig. 13(C) & US 2002/88393 A1	1-18

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
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"&" document member of the same patent family

Date of the actual completion of the international search  
28 December, 2004 (28.12.04)Date of mailing of the international search report  
18 January, 2005 (18.01.05)Name and mailing address of the ISA/  
Japanese Patent Office

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